

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
29 December 2005 (29.12.2005)

PCT

(10) International Publication Number  
**WO 2005/123415 A1**

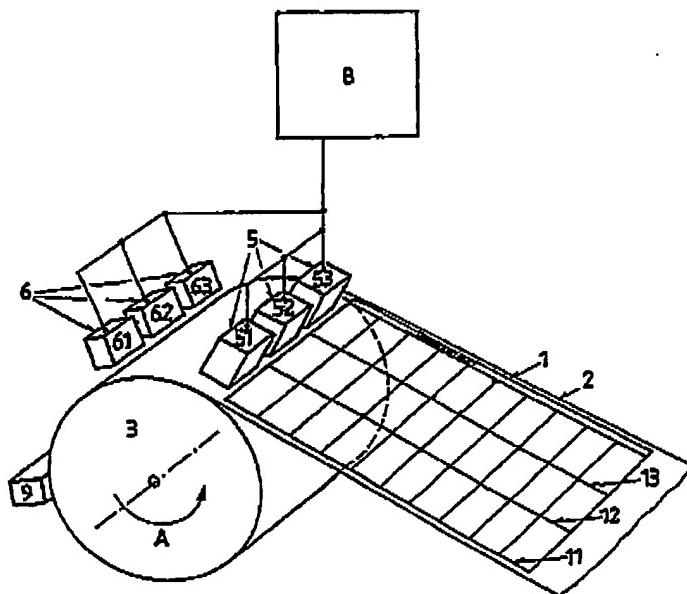
- (51) International Patent Classification<sup>7</sup>: B42D 15/00, B41F 11/02
- (21) International Application Number: PCT/CH2005/000334
- (22) International Filing Date: 15 June 2005 (15.06.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04405371.8 17 June 2004 (17.06.2004) EP
- (71) Applicant (*for all designated States except US*): KBA-GIORGI S.A. [CH/CH]; 4, rue de la Paix, CH-1003 Lausanne (CH).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): BOLOGNINI, Stéphane [CH/CH]; 13, Chemin des Fleurs, CH-1007 Lausanne (CH).
- (74) Agent: GANGUILLET, Cyril; Abrema Agence Brevets et Marques, Ganguillet & Humphrey, Avenue du Théâtre 16, P.O. Box 5027, CH-1002 Lausanne (CH).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BR, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*[Continued on next page]*

- (54) Title: PROCESS AND APPARATUS FOR PROVIDING MARKINGS SECURITY PAPERS



WO 2005/123415 A1

(57) Abstract: Processing unit (8) is programmed to send control signals to all the members (51, 52, 53, 61, 62, 63) of two or more marking stations functioning with different printing technologies. Station (5) for instance functions with a mechanical typography system and station (6) is a laser marking station, the laser beam of which interacts with a light absorbing material applied on the rear side of the sheet (1), without substantially interacting with the front side of sheet (1) and the substrate of sheet (1).

**WO 2005/123415 A1**



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*